RSMC Vienna Graphical Output

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GeoSphere
Austria

Requested on Tuesday, 16 July 2024 at 10:30 UTC
Issued on Tuesday, 16 July 2024 at 14:03 UTC

EXERCISE EXERCISE EXERCISE

The following charts will follow:

- 3 x Time Integrated Concentration Maps
- 3 x Total Deposition Maps
- 1 x Trajectory Plot

Emission and modelling details:

Source name:	BROWNS-FERRY, UNITED STATES
Source location:	W -87.1186°, N 34.7042°
Start of release:	Tuesday, 16 July 2024 at 10:30 UTC
Duration of release:	05:00 h
Height of release:	0.0m to 500.0m AGL
Isotope:	Cs-137
Total emitted:	1.0e+15 Bq
Dispersion model:	FLEXPART
Grid resolution:	0.5° x 0.5°
Number of particles:	2.0e+05
Forecast initial time:	16 Jul 2024 00:00 UTC

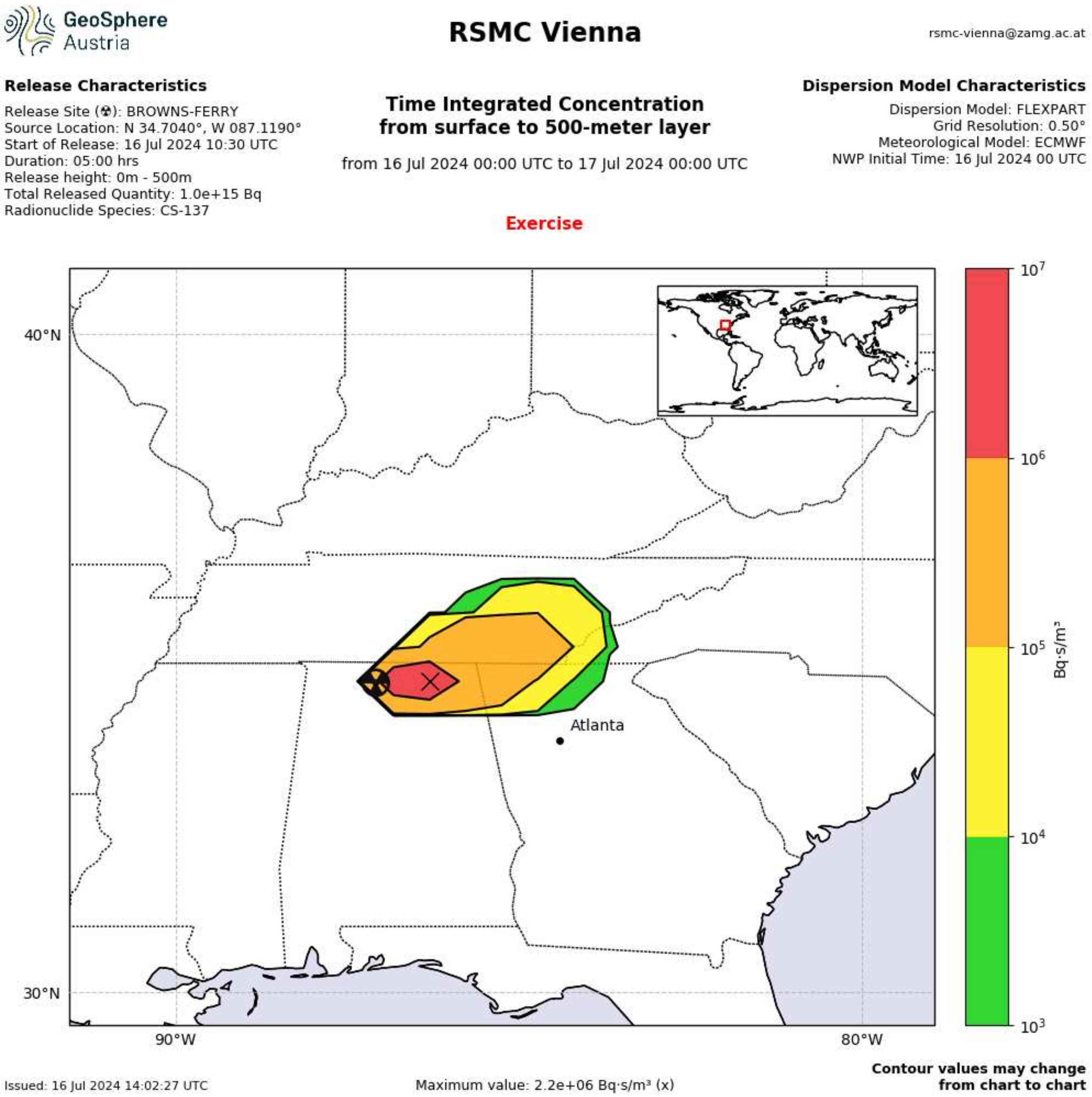
Additional comments: · Contour values may change from chart to chart

Please contact us if any problem arises with these products

Regards,

RSMC Vienna

EXERCISE EXERCISE EXERCISE



RSMC Vienna

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Release Characteristics

Release Site (☢): BROWNS-FERRY
Source Location: N 34.7040°, W 087.1190°
Start of Release: 16 Jul 2024 10:30 UTC
Duration: 05:00 hrs
Release height: 0m - 500m
Total Released Quantity: 1.0e+15 Bq
Radionuclide Species: CS-137

Time Integrated Concentration from surface to 500-meter layer

from 16 Jul 2024 00:00 UTC to 17 Jul 2024 00:00 UTC

Dispersion Model Characteristics

Dispersion Model: FLEXPART
Grid Resolution: 0.50°
Meteorological Model: ECMWF
NWP Initial Time: 16 Jul 2024 00 UTC

Exercise

Issued: 16 Jul 2024 14:02:27 UTC

Maximum value: 2.2e+06 Bq·s/m³ (x)

Contour values may change from chart to chart

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Release Characteristics

Release Site (☢): BROWNS-FERRY
Source Location: N 34.7040°, W 087.1190°
Start of Release: 16 Jul 2024 10:30 UTC
Duration: 05:00 hrs
Release height: 0m - 500m
Total Released Quantity: 1.0e+15 Bq
Radionuclide Species: CS-137

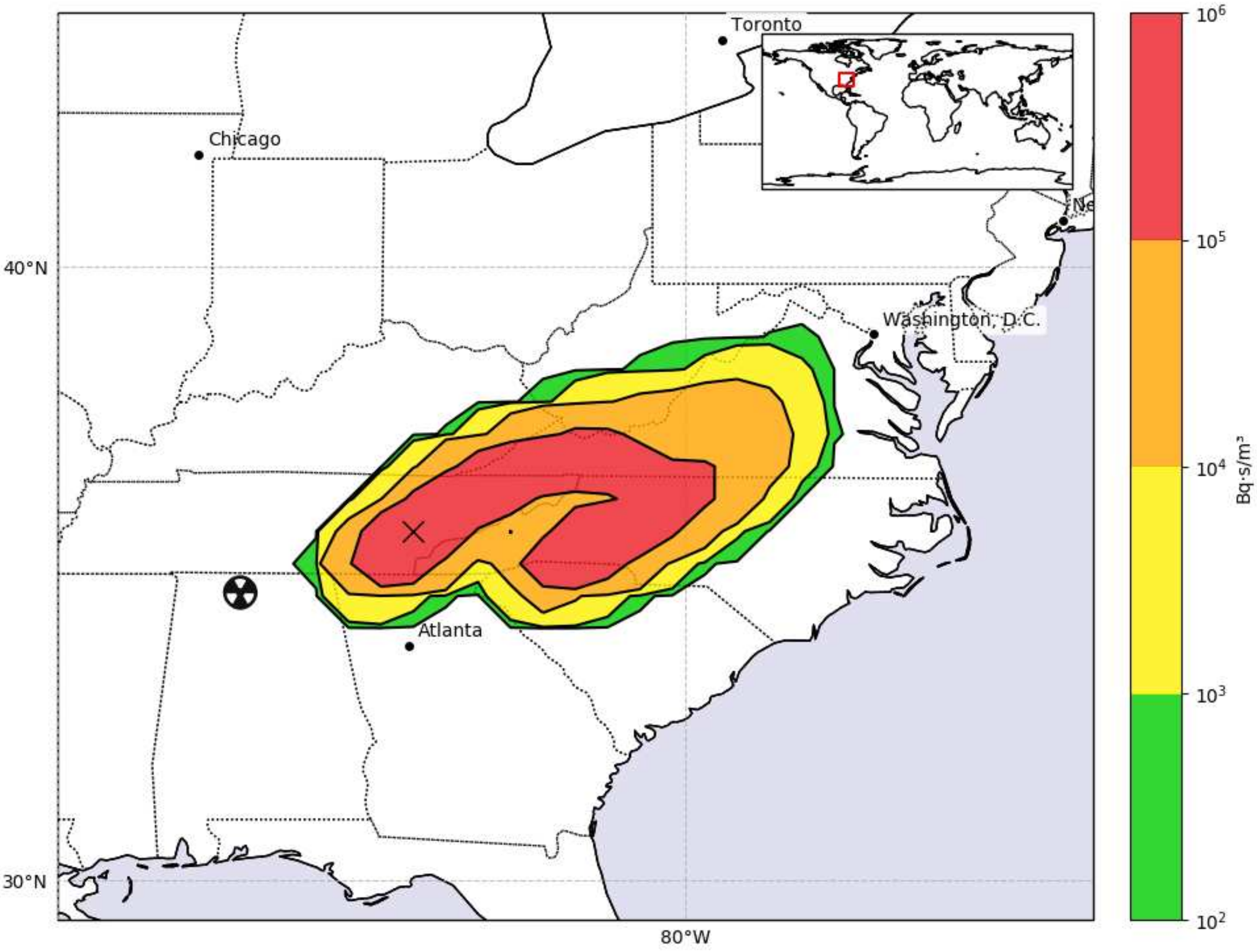
Time Integrated Concentration from surface to 500-meter layer

from 17 Jul 2024 00:00 UTC to 18 Jul 2024 00:00 UTC

Dispersion Model Characteristics

Dispersion Model: FLEXPART
Grid Resolution: 0.50°
Meteorological Model: ECMWF
NWP Initial Time: 16 Jul 2024 00 UTC

Exercise



Issued: 16 Jul 2024 14:02:27 UTC

Maximum value: 5.3e+05 Bq·s/m³ (x)

Contour values may change from chart to chart

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Release Characteristics

Release Site (☢): BROWNS-FERRY
Source Location: N 34.7040°, W 087.1190°
Start of Release: 16 Jul 2024 10:30 UTC
Duration: 05:00 hrs
Release height: 0m - 500m
Total Released Quantity: 1.0e+15 Bq
Radionuclide Species: CS-137

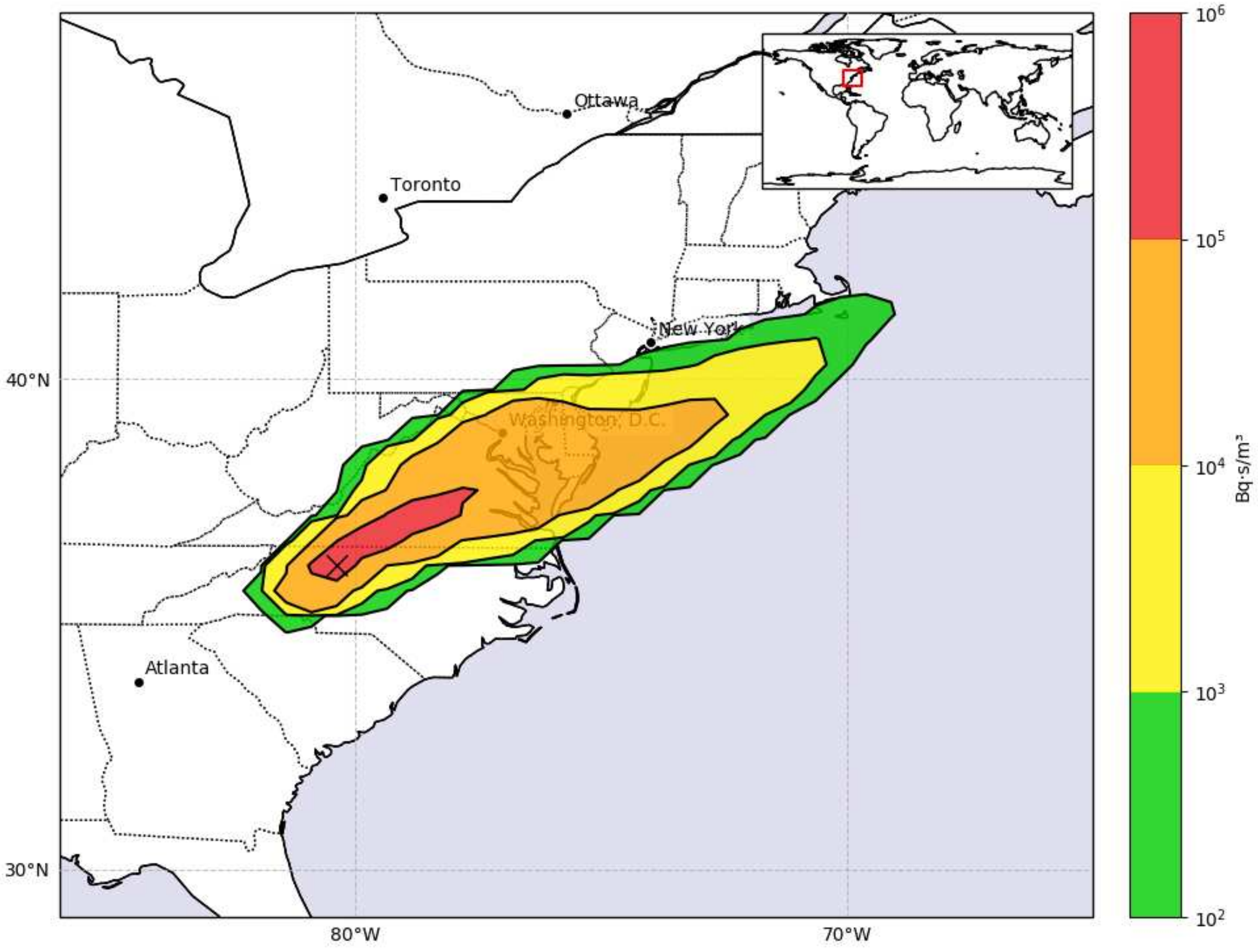
Time Integrated Concentration from surface to 500-meter layer

from 18 Jul 2024 00:00 UTC to 19 Jul 2024 00:00 UTC

Dispersion Model Characteristics

Dispersion Model: FLEXPART
Grid Resolution: 0.50°
Meteorological Model: ECMWF
NWP Initial Time: 16 Jul 2024 00 UTC

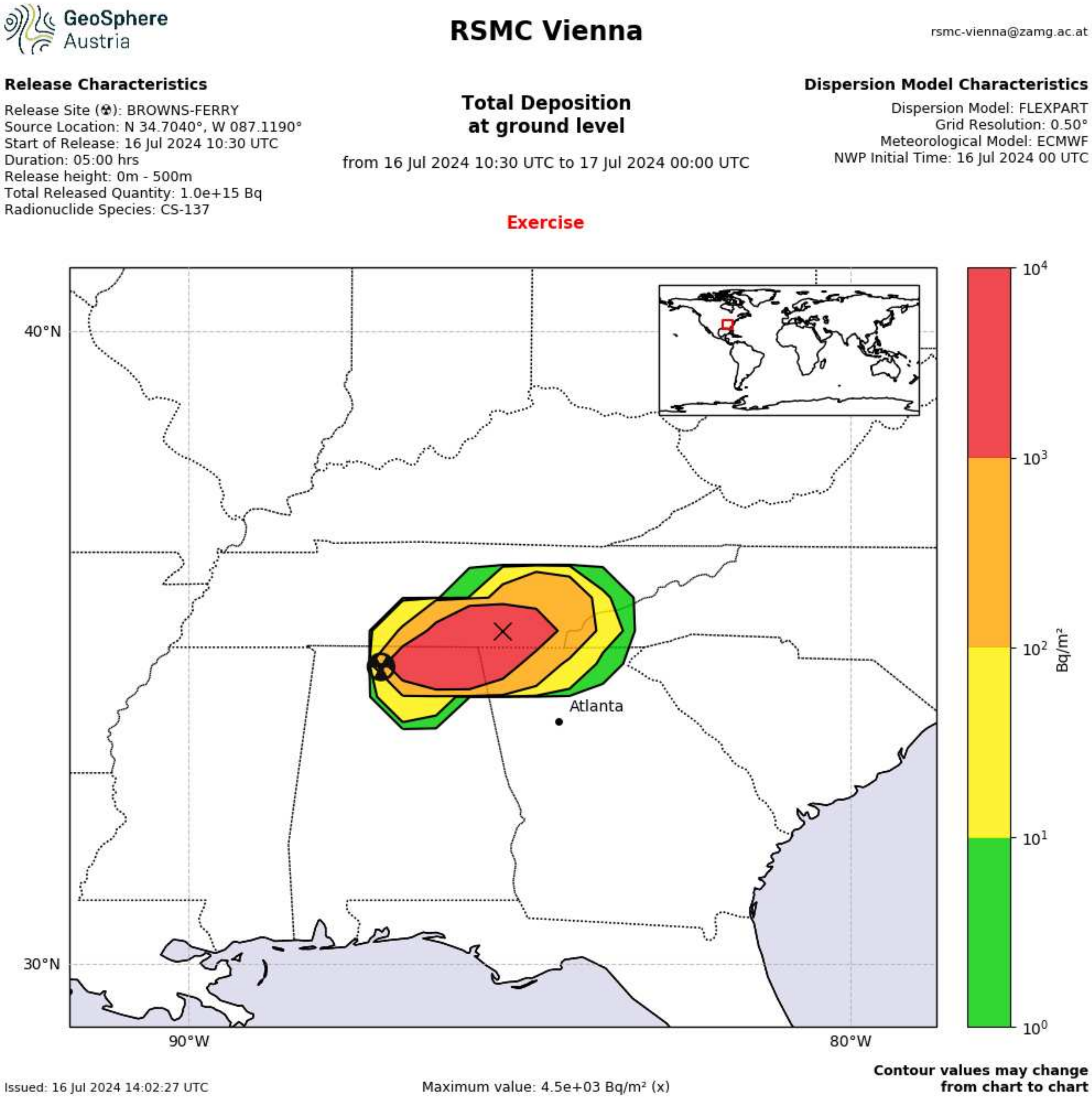
Exercise


Ottawa
Toronto
New York
Washington, D.C.
Atlanta
40°N
30°N
80°W
70°W
10^6
10^5
10^4
10^3
10^2
Bq·s/m³

Issued: 16 Jul 2024 14:02:27 UTC

Maximum value: 2.1e+05 Bq·s/m³ (x)

Contour values may change from chart to chart



RSMC Vienna

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Release Characteristics

Release Site (☢): BROWNS-FERRY
Source Location: N 34.7040°, W 087.1190°
Start of Release: 16 Jul 2024 10:30 UTC
Duration: 05:00 hrs
Release height: 0m - 500m
Total Released Quantity: 1.0e+15 Bq
Radionuclide Species: CS-137

Total Deposition at ground level

from 16 Jul 2024 10:30 UTC to 17 Jul 2024 00:00 UTC

Dispersion Model Characteristics

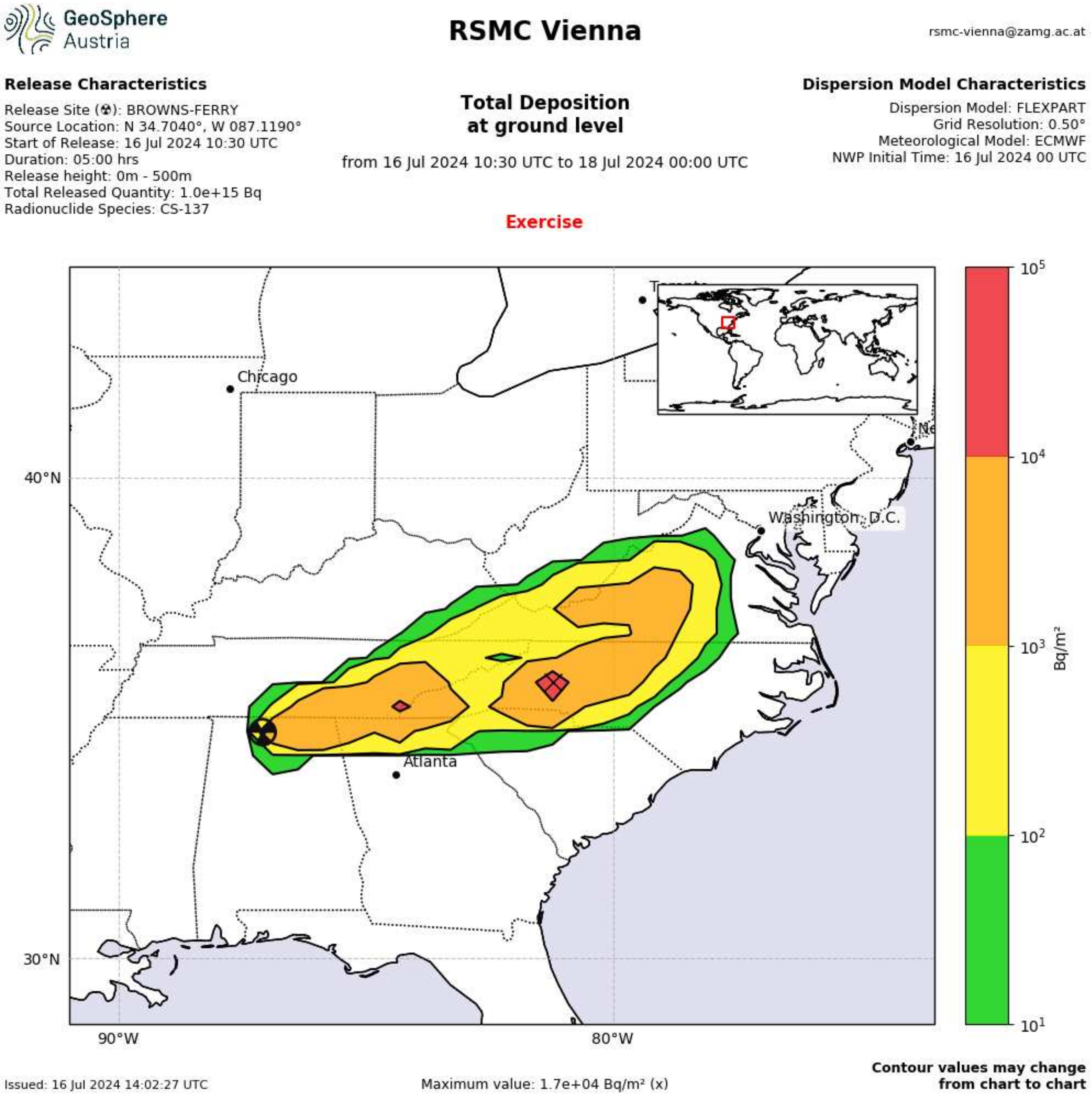
Dispersion Model: FLEXPART
Grid Resolution: 0.50°
Meteorological Model: ECMWF
NWP Initial Time: 16 Jul 2024 00 UTC

Exercise

Issued: 16 Jul 2024 14:02:27 UTC

Maximum value: 4.5e+03 Bq/m² (x)

Contour values may change from chart to chart



RSMC Vienna

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Release Characteristics

Release Site (☢): BROWNS-FERRY
Source Location: N 34.7040°, W 087.1190°
Start of Release: 16 Jul 2024 10:30 UTC
Duration: 05:00 hrs
Release height: 0m - 500m
Total Released Quantity: 1.0e+15 Bq
Radionuclide Species: CS-137

Total Deposition at ground level

from 16 Jul 2024 10:30 UTC to 18 Jul 2024 00:00 UTC

Dispersion Model Characteristics

Dispersion Model: FLEXPART
Grid Resolution: 0.50°
Meteorological Model: ECMWF
NWP Initial Time: 16 Jul 2024 00 UTC

Exercise

Issued: 16 Jul 2024 14:02:27 UTC

Maximum value: 1.7e+04 Bq/m² (x)

Contour values may change from chart to chart

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Release Characteristics

Release Site (☢): BROWNS-FERRY
Source Location: N 34.7040°, W 087.1190°
Start of Release: 16 Jul 2024 10:30 UTC
Duration: 05:00 hrs
Release height: 0m - 500m
Total Released Quantity: 1.0e+15 Bq
Radionuclide Species: CS-137

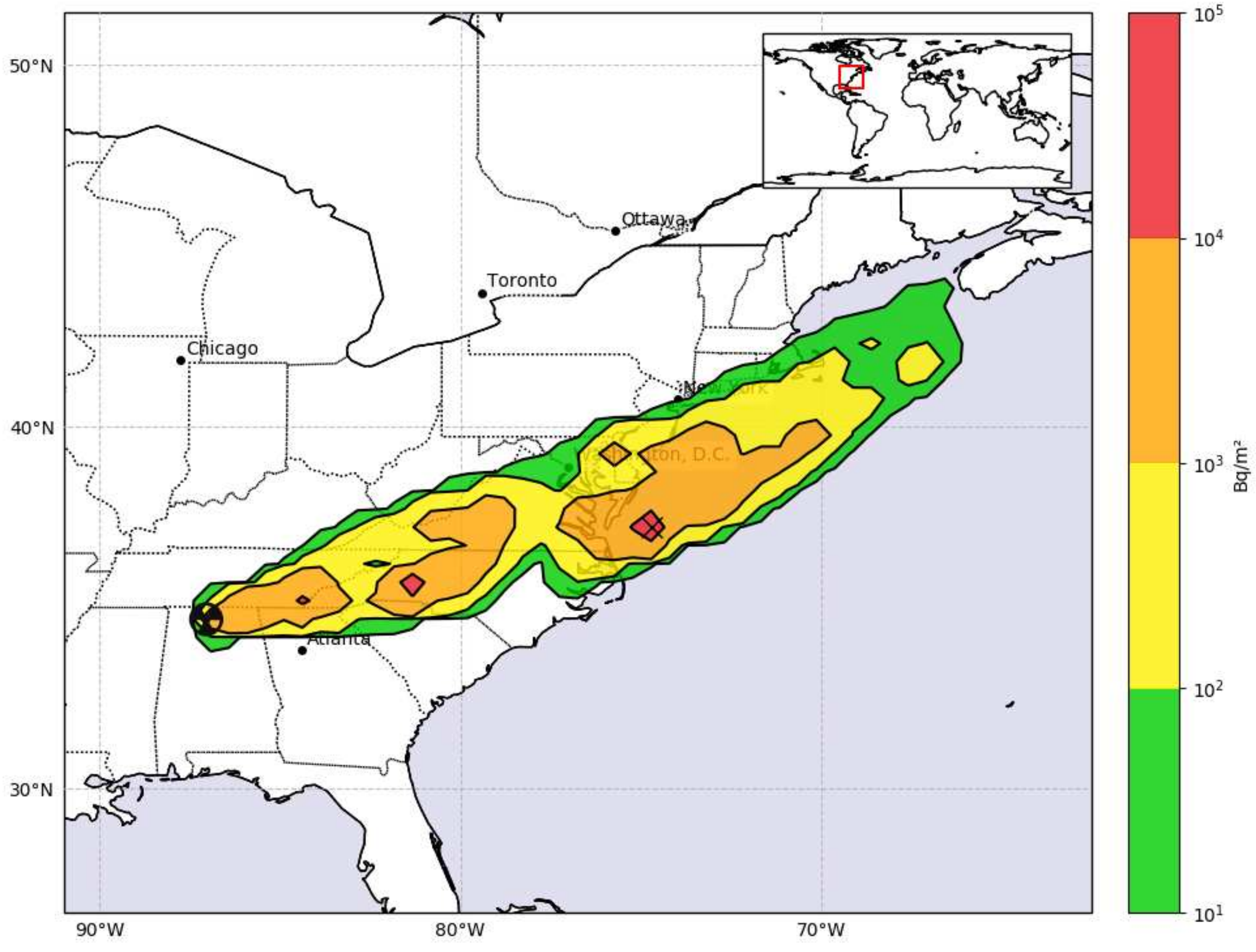
Total Deposition at ground level

from 16 Jul 2024 10:30 UTC to 19 Jul 2024 00:00 UTC

Dispersion Model Characteristics

Dispersion Model: FLEXPART
Grid Resolution: 0.50°
Meteorological Model: ECMWF
NWP Initial Time: 16 Jul 2024 00 UTC

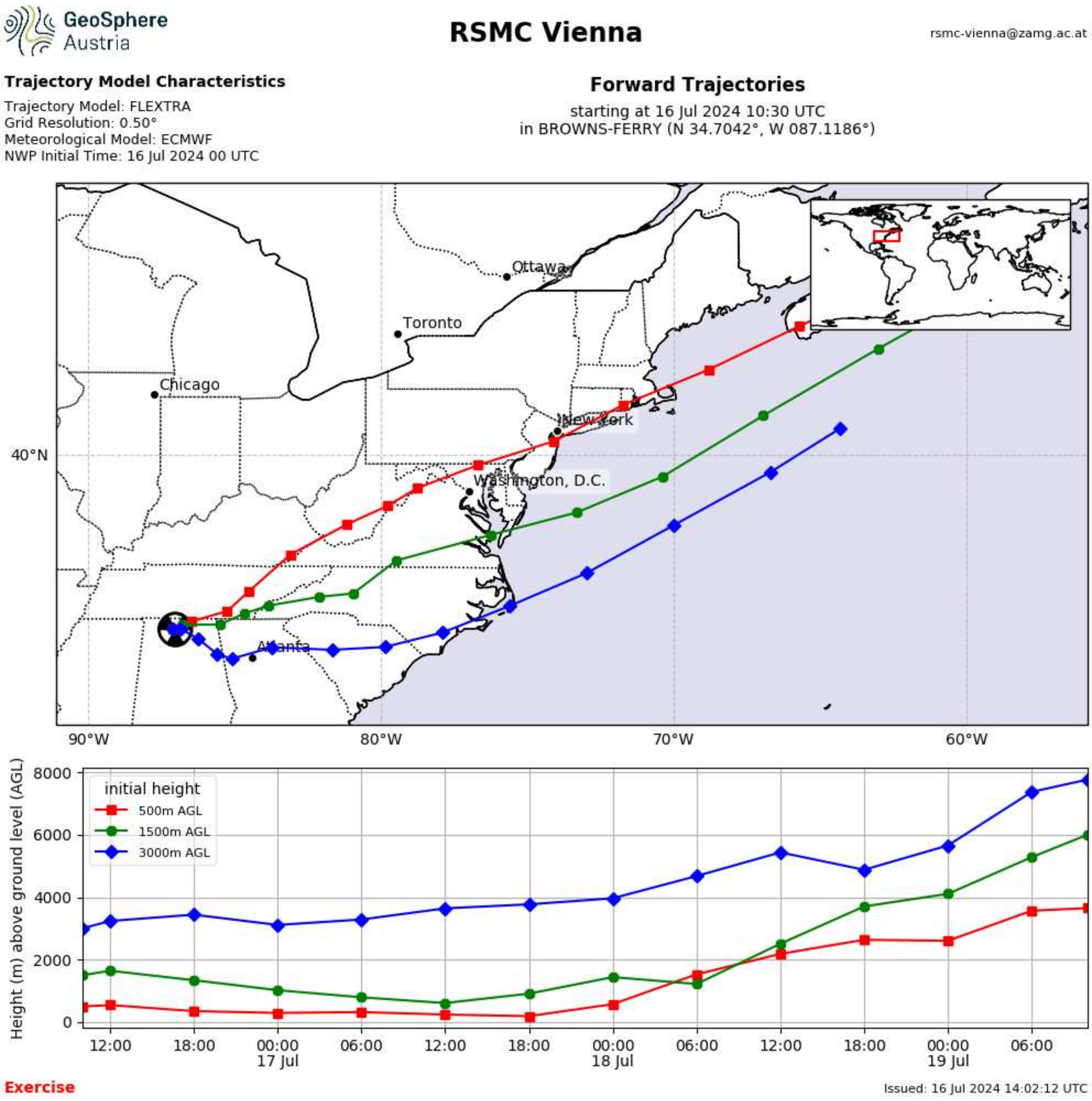
Exercise


50°N
40°N
30°N
90°W
80°W
70°W
Ottawa
Toronto
Chicago
New York
Washington, D.C.
Atlanta
10^5
10^4
10^3
10^2
10^1
Bq/m²

Issued: 16 Jul 2024 14:02:27 UTC

Maximum value: 2.9e+04 Bq/m² (x)

Contour values may change from chart to chart



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Trajectory Model Characteristics

Trajectory Model: FLEXTRA
Grid Resolution: 0.50°
Meteorological Model: ECMWF
NWP Initial Time: 16 Jul 2024 00 UTC

Forward Trajectories

starting at 16 Jul 2024 10:30 UTC
in BROWNS-FERRY (N 34.7042°, W 087.1186°)

Ottawa
Toronto
Chicago
New York
Washington, D.C.
Atlanta
40°N
90°W
80°W
70°W
60°W
initial height
500m AGL
1500m AGL
3000m AGL
Height (m) above ground level (AGL)
8000
6000
4000
2000
0
12:00
18:00
00:00
17 Jul
06:00
12:00
18:00
00:00
18 Jul
06:00
12:00
18:00
00:00
19 Jul
06:00

Exercise

Issued: 16 Jul 2024 14:02:12 UTC

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